

Title (en)

ADDITION CROSS-LINKING SILICONE RUBBER MIXTURES, A METHOD FOR THEIR PRODUCTION AND THEIR USE

Title (de)

ADDITIONSVERNETZENDE SILICONKAUTSCHUKMISCHUNGEN, EIN VERFAHREN ZU DEREN HERSTELLUNG UND DEREN VERWENDUNG

Title (fr)

MELANGES DE CAOUTCHOUC SILICONE RETICULANT PAR ADDITION, PROCEDE PERMETTANT DE LES PREPARER ET LEUR UTILISATION

Publication

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Application

EP 98955431 A 19981012

Priority

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- EP 9806445 W 19981012

Abstract (en)

[origin: DE19740631A1] Addition-cross linked silicone rubber composition comprises organopolysiloxane, hydrogen siloxane(s), platinum catalyst, aluminum hydroxide, aluminum oxide and/or respective mixed oxides/hydroxides, fillers, zinc oxide and optionally titanium oxide. Addition-cross linked silicone rubber composition comprises: (A) 20-40 wt.% alkenyl-containing organopolysiloxane(s) with 0.0002-3 wt.% alkylene groups and viscosity 0.1-1000 Pa.s at 25 deg C; (B) hydrogen siloxane(s) with at least 3 SiH groups, such that the ratio SiH:Si-bonded alkenyl groups is \- 2.0:1; (C) 0.01-250 ppm platinum catalyst and optionally inhibitor; (D) 35-55 wt.% aluminum hydroxide (Al(OH)3), aluminum oxide (Al2O3) and/or their mixed oxides/hydroxides; (E) 5-25 wt.% optionally surface-modified filler(s) of specific surface area 150-500 m<2>/g; (F) 1-5 wt.% zinc oxide of BET surface area 30-70 m<2>/g and optionally 0-5 wt.% titanium oxide of BET surface area 35-65 m<2>/g; and optionally (G) further aids. An Independent claim is included for the preparation of the cross linked composition by mixing (A), (C), (D), (F), optionally (E) and/or (G), separately mixing (B) and optionally (E) and (D), (G) and/or (C) and (F) and mixing the two mixtures together in an injection molding machine.

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